What is claimed is:

- 1. An optical interference display unit at least comprising:
- a first electrode;
- a second electrode, in parallel with the first electrode and comprising:
 - a first material layer; and
 - a second material layer; and
- a support structure supporting a edge of the second electrode;

wherein at least one material for forming the first material layer and the second material layer is a conductive material.

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- 2. The optical interference display unit of claim 1, wherein the optical interference display unit is located on a substrate.
- 3. The optical interference display unit of claim 2, wherein the substrate is a transparent substrate.
 - 4. The optical interference display unit of claim 1, wherein a material of the first electrode is a conductive transparent material.
- 5. The optical interference display unit of claim 4, wherein the conductive transparent material is indium tin oxide (ITO), indium zinc oxide (IZO), or indium oxide (IO)
- 6. The optical interference display unit of claim 1, wherein the second electrode is a deformable electrode.
 - 7. The optical interference display unit of claim 1, wherein the second electrode is a movable electrode.

- 8. The optical interference display unit of claim 1, wherein a material for forming the support structure is selected from a group consisting of positive photoresist, negative photoresist, acrylic resin and epoxy resin.
- 9. The optical interference display unit of claim 1, wherein the first material layer is made from a conductive material and the second material layer is made from metal or dielectric material.
- 10. The optical interference display unit of claim 1, wherein the first material layer is made from metal or dielectric material and the second material layer is made from a conductive material.
 - 11. The optical interference display unit of claim 1, wherein a material for forming the first material layer is aluminum, chromium, cobalt, copper, silicon nitride or silicon oxide.

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- 12. The optical interference display unit of claim 1, wherein a material for forming the second material layer is aluminum, chromium, cobalt, copper, silicon nitride or silicon oxide.
- 13. The optical interference display unit of claim 1, wherein a preferred material for forming the second material layer is a material with a higher etching selectivity ratio than that of a material for forming the first material layer.
- 14. A method for fabricating an optical interference display unit disposed on a transparent substrate, the method comprising:

forming a first electrode on the transparent substrate; forming a sacrificial layer on the first electrode;

forming at least two openings in the sacrificial layer and the first electrode;

forming support structures in the openings;

forming a first material layer on the sacrificial layer and the support structures;

forming a second material layer on the first material layer;

forming a patterned photoresist layer on the second material layer;

while using the patterned photoresist layer as a mask, etching the second material layer to expose the first material layer;

stripping the patterned photoresist layer;

while using the second material layer as a mask, etching the first material layer to expose the support structures; and

removing the sacrificial layer.

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- 15. The method for fabricating the optical interference display unit of claim 14, wherein the second electrode is a deformable electrode.
- 16. The method for fabricating the optical interference display unit of claim 14, wherein the second electrode is a movable electrode.
- 17. The method for fabricating the optical interference display unit of claim 14, wherein the first material layer is made from a conductive material and the second material layer is made from a metal or a dielectric material.
- 18. The method for fabricating the optical interference display unit of claim 17, wherein the first material layer is made from a metal or a dielectric material and the second material layer is made from a conductive material.

- 19. The method for fabricating the optical interference display unit of claim 14, wherein a material for forming the first material layer is aluminum, chromium, cobalt, copper, silicon nitride or silicon oxide.
- 20. The method for fabricating the optical interference display unit of claim 14, wherein a material for forming the second material layer is aluminum, chromium, cobalt, copper, silicon nitride or silicon oxide.
- 21. The method for fabricating the optical interference display unit of claim 14, wherein a preferred material for forming the second material layer is a material with a higher etching selectivity ratio than that of a material for forming the first material layer.